ORDER NO. ARD-7709102C

Service Manual

ELCASET Tape Deck

RS-7500US

Hi-Fi Front-Loading ELCASET Tape Deck
with Three-Head Stable Transport System

RS-7500U MECHANISM SERIES

Specifications (Catalog specifications for sales)

Power requirement:	AC; 110/125/220/240V, 50/60Hz Power consumption; 45W
Motor:	1-frequency generator servo controlled DC motor
Track system:	3-head, 4-track, 2-channel ELCASET system
Tape speed:	9.5cm/s
Wow and flutter:	0.06% (WRMS), ±0.15% (DIN)
Frequency response:	25~20,000Hz ±3dB (tape type I) 20~22,000Hz (DIN) (tape type I) 25~22,000Hz ±3dB (tape type II and III) 20~25,000Hz (DIN) (tape type II and III)
Signal-to-noise ratio:	60dB (tape type I, 315Hz peak level) 63dB (tape type II and III, 315Hz peak level)
Distortion:	0.8% (tape type III)
Input:	MIC; sensitivity 0.25mV/applicable microphone impedance 400Ω~20KΩ LINE; sensitivity 60mV, input impedance 100KΩ DIN; sensitivity 0.25mV, input impedance 2.2KΩ
Output:	LINE; output level 580mV/load impedance 22KΩ over DIN; output level 580mV, output impedance 3.3KΩ HEADPHONE; output level 60mV/load impedance 8Ω
Head:	Recording; super permalloy head Playback; super permalloy head Erasure; double-gap ferrite head
Dimensions:	48.3cm(W)×25.3cm(H)×35.0cm(D)
Weight:	14kg

Specifications are subject to change without notice.

National Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

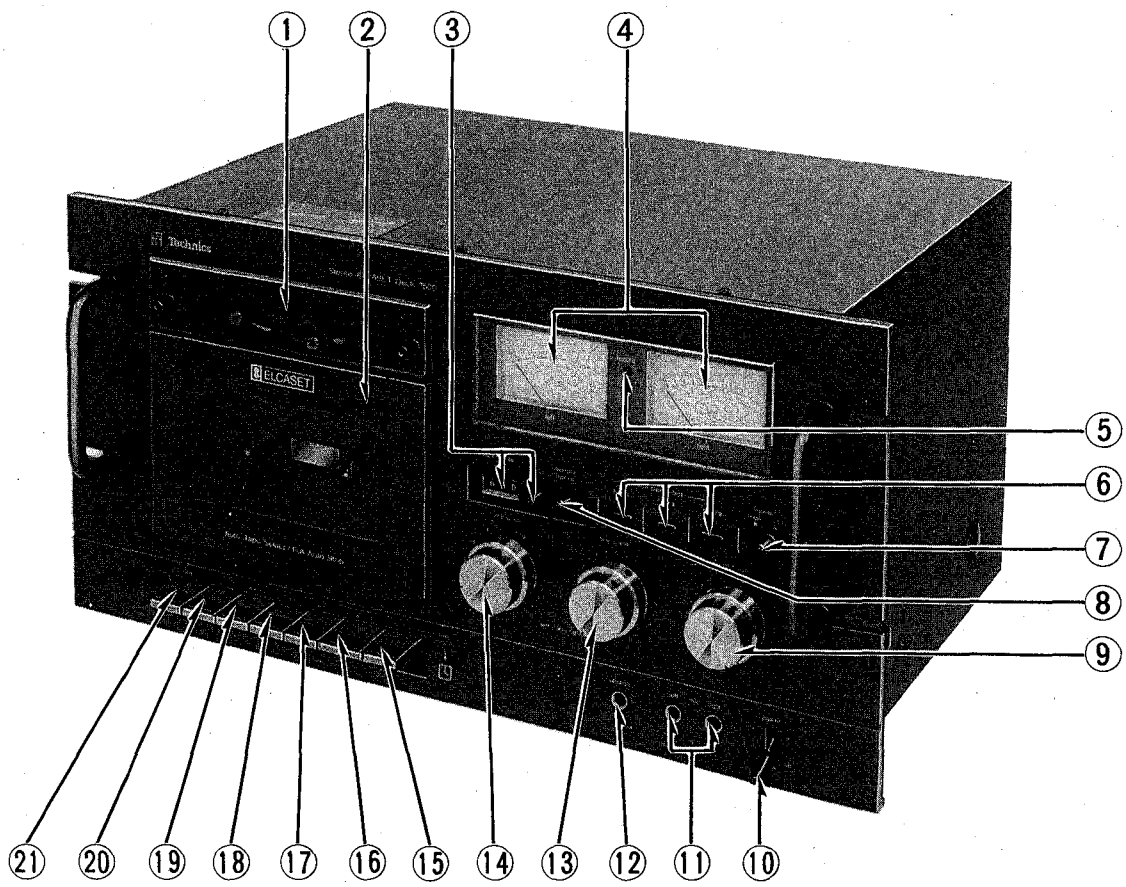


Fig. 1

① Head cover
② Elcaset compartment cover
③ Tape counter and reset button
④ Level meters
⑤ Recording indicator lamp
⑥ Tape-type indicator lamps
⑦ Tape monitor button
⑧ Memory-rewind button
⑨ Output level control
⑩ Power switch
⑪ Microphone jacks
⑫ Headphones jack
⑬ Line input controls
⑭ Microphone/DIN input level controls
⑮ Pause button
⑯ Stop button
⑰ Play button
⑱ Fast forward button
⑲ Rewind button
⑳ Record button
㉑ Eject button

DISASSEMBLY INSTRUCTIONS

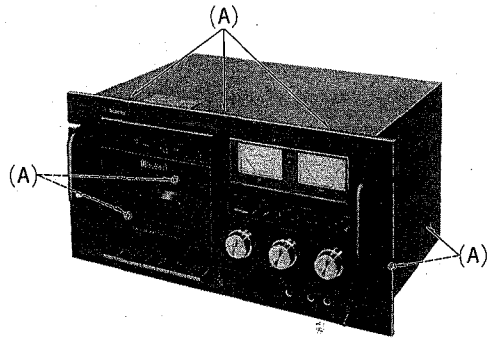


Fig. 2

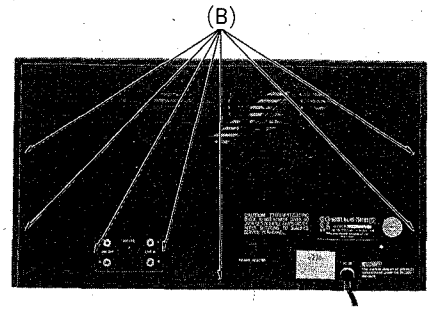


Fig. 3

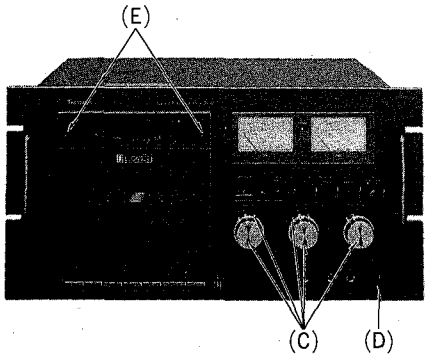


Fig. 4

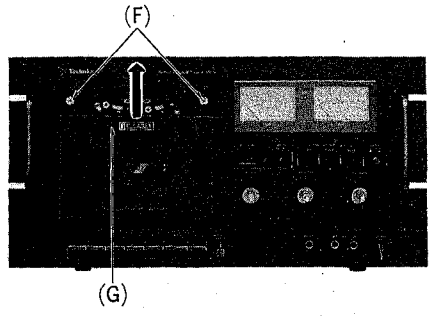


Fig. 5

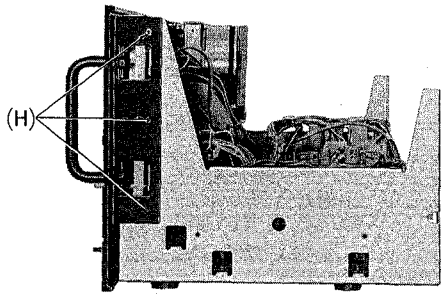


Fig. 6

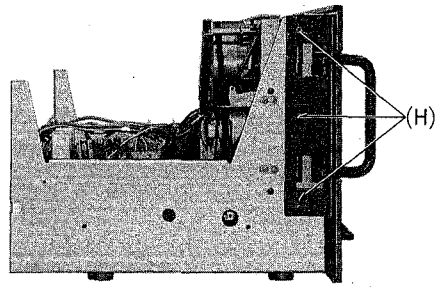


Fig. 7

Procedure	To remove ——.	Remove ——.	Shown in fig. ——.
1	Case cover	• 7 black screws ····· (A)	2
2	Back plate	• 7 black screws ····· (B)	3
3	Front panel	• 5 control knobs ····· (C) • Power switch knob ····· (D) • 2 dressing glass holder ····· (E) • 2 dressing glass retainer ····· (F) • Cassette lid ····· (G) ※ • 6 red screws ····· (H)	4 4 4 5 5 6, 7

※ The cassette compartment cover can be removed by lifting it upward, in the direction of the arrow in fig. 5.

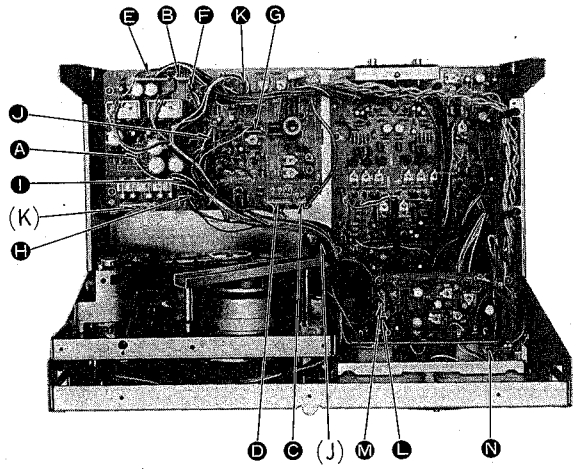


Fig. 8

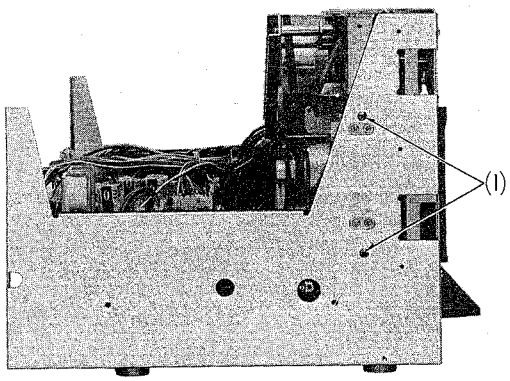


Fig. 9

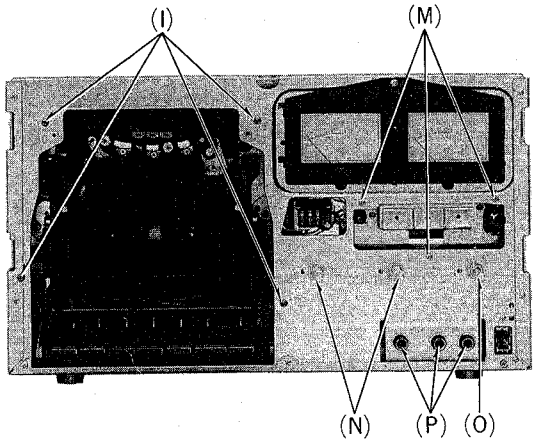


Fig. 10

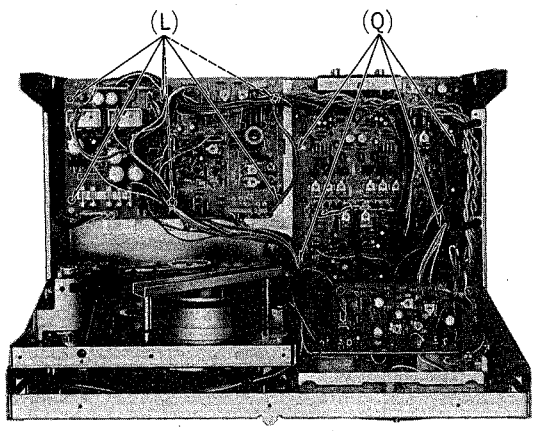


Fig. 11

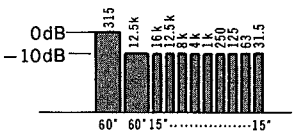
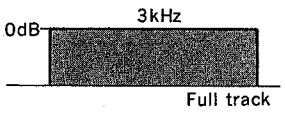
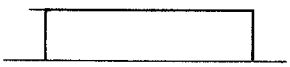
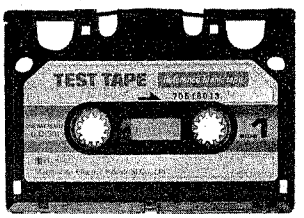
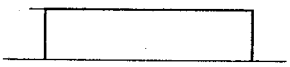
Procedure	To remove ——.	Remove ——.	Shown in fig. ——.
4	Mechanism	• 9 connectors ····· A D K G H I J L M • 6 red screws ····· (I) • Mechanism holding screw ····· (J)	8 9, 10 8
4	Power circuit board	• 4 connectors ····· B C E K • 6 pin socket ····· (K) • 6 screws ····· (L)	8 8 11
4	Playback EQ circuit board	• 3 screws ····· (M)	10
4	Input VR circuit board	• 2 VR nuts ····· (N)	10
4	Output VR circuit board	• Output VR nut ····· (O)	10
4	Main circuit board	• 3 jack nuts ····· (P) • 4 screws ····· (Q)	10 11

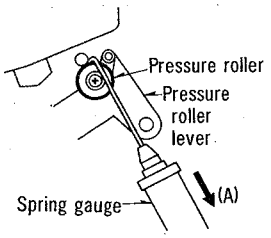
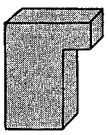
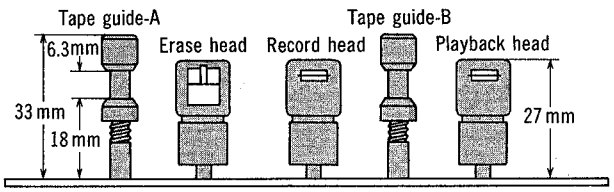
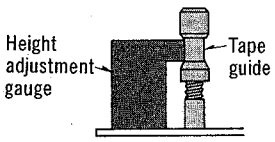
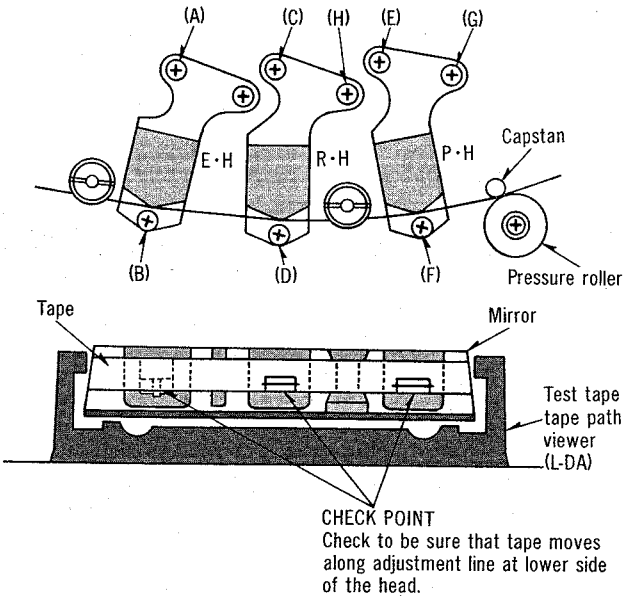
MEASUREMENT & ADJUSTMENT

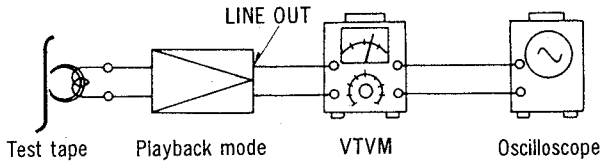
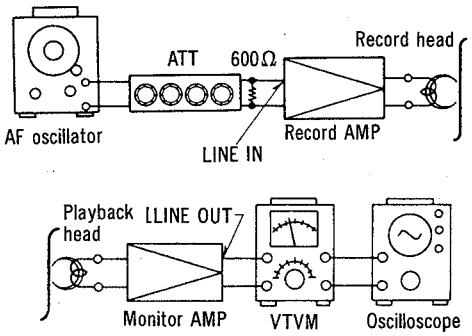
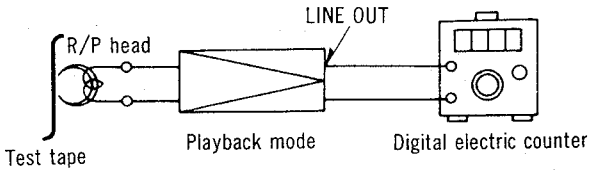
NOTE:

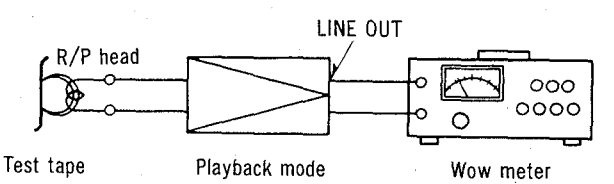
1. Make sure heads are clean.
2. Make sure capstan and pressure roller are clean.
3. Judgeable room temperature: 20±5°C (68±9°F)
4. Microphone input level control: Maximum.
5. Line input level control: Maximum.
6. Output level control: Maximum.
7. Monitor switch: Tape

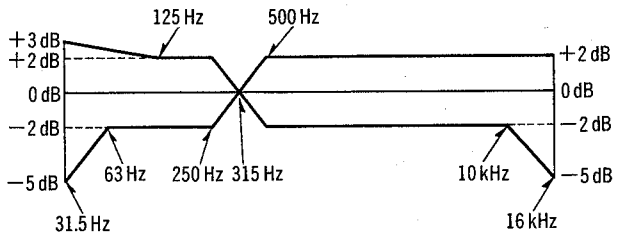
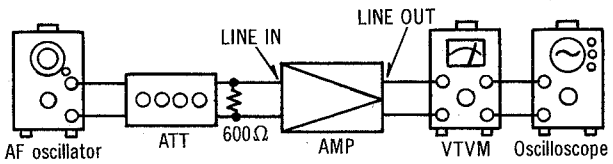
ELCASET TYPE TEST TAPE

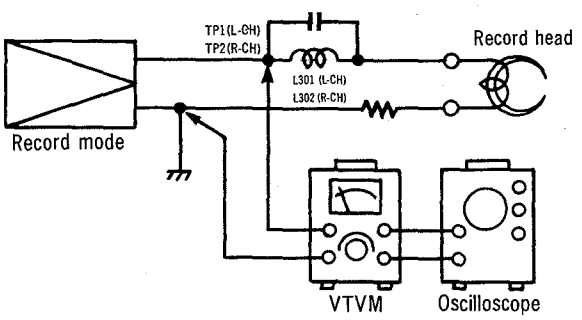
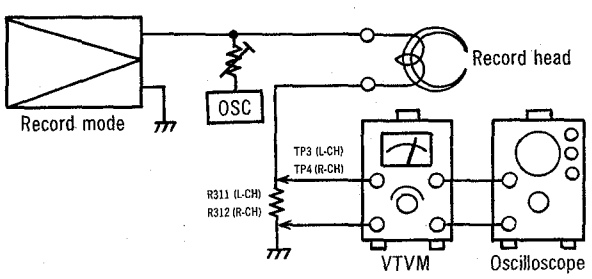
	PART NO.	PURPOSES	FREQUENCY LEVEL	CONSTRUCTIONS	REC. TIME	APPEARANCE
1	QZZLFB	* Playback freq fesponse * Playback standard level * Head azimuth adjustment	31.5Hz ~ 16kHz −10dB 315Hz 0dB 12.5kHz −10dB		Aprox. 9 min	
2	QZZLWB	* Wow and flutter * Tape speed	3kHz 0dB		15 min	
3	QZZLRA1	Reference blank tape (TYPE I tape)	——		15 min	
4	QZZLRA2	Reference blank tape (TYPE II tape)	——		15 min	
5	QZZLRA3	Reference blank tape (TYPE III tape)	——		15 min	
6	QZZLDB	* Tape-path viewer with mirror	——			

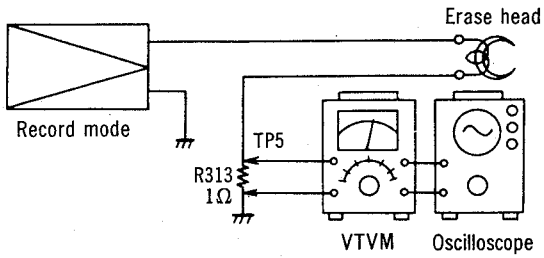
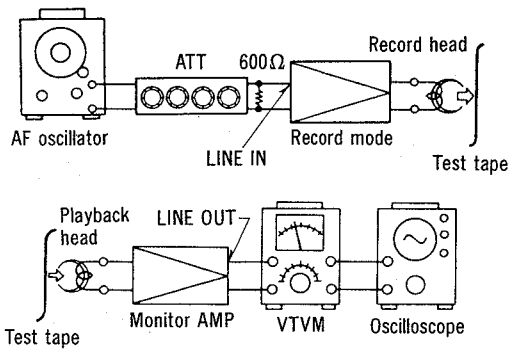
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Pressure of pressure roller Equipment: * Spring gauge (max. 2,000 gr)	1. Place UNIT into playback mode. 2. Hook the spring gauge to pressure roller and pull it in the direction of the arrow (A) as shown in fig. 12. 3. Measure the torque at the moment when the pressure roller moves away from the capstan. Standard value: 1,000 ± 100 gr	* Playback mode  **Fig. 12**
Tape guide height adjustment Equipment: * Gauge for adjustment of tape guide height 	**Tape guide height adjustment** 1. Using the gauge for adjustment of tape guide height, adjust the tape guide height as shown in fig. 13. 2. Adjust tape guides A and B. 3. If a gauge for adjustment of tape guide height is not available, adjust the height to the dimensions shown in fig. 14.  **Fig. 14**	* Playback mode  **Fig. 13**
Head height adjustment Equipment: * Test tape····· QZZLDB	**Head height adjustment** 1. Playback the test tape (QZZLDB). 2. While the tape is playing back, adjust the head-height adjustment screws (A)~(F) so that the tape-to-head relationship, as seen in the mirror, is as shown in fig. 15.  **Fig. 15**	* Playback mode

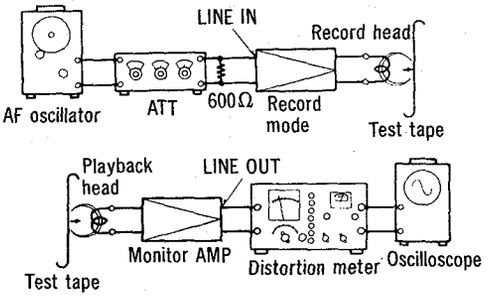
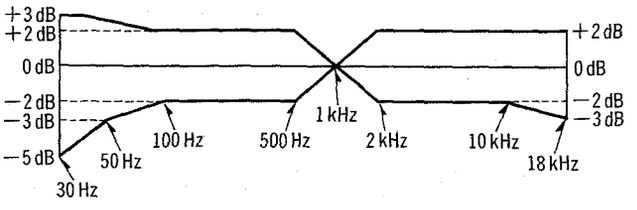
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Head azimuth adjustment Equipment: * VTVM * Oscilloscope * Test tape (azimuth) ···QZZLFB	**Playback head adjustment** 1. Test equipment connection is shown below.  **Fig. 16** 2. Playback azimuth tape (QZZLFB 12.5kHz). 3. Adjust playback head angle adjustment screw (G) in fig. 15 so that output level at LINE OUT becomes maximum. 4. Measure both channels, and adjust levels for equal output. 5. After adjustment lock head adjustment screw with lacquer.	* Playback mode
Equipment: * VTVM * Oscilloscope * AF oscillator * ATT * Test tape··· QZZLRA1 (reference blank tape)	**Record head adjustment** 1. Test equipment connection is shown in fig. 17.  **Fig. 17** 2. Set the monitor switch to TAPE and supply 1kHz signal (−24dB) to LINE IN. 3. Using test tape (QZZLRA1). 4. Place UNIT into record mode and measure the monitor output level at LINE OUT jack on VTVM. 5. Adjust head angle adjustment screw (H) in fig. 15 so that output level at LINE OUT becomes maximum. 6. Measure both channels, and adjust levels for equal output. 7. After adjustment lock head adjustment screw with lacquer.	* Record mode * Monitor switch·····tape
Tape speed Equipment: * Digital electronic counter or frequency counter (RP8067) * Test tape··· QZZLWB	**Tape speed accuracy** 1. Test equipment connection is shown below.  **Fig. 18**	* Playback mode

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	2. Playback test tape (QZZLWB 3,000Hz), and supply playback signal to frequency counter. 3. Measure this frequency. 4. On the basis of 3,000Hz determine value by following formula: $\text{Tape speed accuracy} = \frac{f-3{,}000}{3{,}000} \times 100(\%)$ where, f=measured value 5. Take measurement at middle section of tape. **Standard value: ±1.5%** **Adjustment method** 1. Playback the test tape (middle). 2. Adjust the tape speed adjustment VR shown in fig. 33 so that frequency becomes 3,000Hz. **Tape speed fluctuation** Make measurements in same manner as above (beginning middle and end of tape), and determine difference between maximum and minimum values and calculate as follows: $\text{Tape speed fluctuation} = \frac{f_1-f_2}{3{,}000} \times 100(\%)$ f_1=maximum value f_2=minimum value **Standard value: 1%**	
Wow and flutter Equipment: * Wow meter * Test tape··· QZZLWB	1. Test equipment connection is shown below.  **Fig. 19** 2. Use wow test tape (QZZLWB) and measure the playback signal on wow meter. 3. Wow and flutter is expressed in percentage and that measurement can be weighted by JIS network (WRMS). 4. Measure at middle section of test tape. **Standard value: 0.08% (WRMS)**	* Playback mode
Playback frequency response Equipment: * VTVM * Oscilloscope * Test tape··· QZZLFB	1. Test equipment connection is as same as "Head azimuth adjustment" but use the test tape (QZZLFB) instead of head azimuth tape (See fig. 16). 2. Place UNIT into playback mode. 3. Playback frequency response test tape (QZZLFB). 4. Measure output level at 16kHz, 12.5kHz, 8kHz, 4kHz, 1kHz, 500Hz, 250Hz, 125Hz, 63Hz, 31.5Hz and compare each output level with standard frequency 315Hz, at LINE OUT. **Note:** The reference standard playback frequency response, 315Hz, has been recorded on the test tape for playback level measurement (QZZLFB) at 0dB.	* Playback mode

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	When measuring playback frequency response, therefore, compare with output values of other frequencies at a value 10 dB lower than the playback output value. 5. Make measurement for both channels. 6. Make sure that the measured value is within the range specified in the frequency response chart. **Playback frequency response chart**  **Fig. 20** 7. If measured value is not in standard, adjust VR201 (L-CH), VR202 (R-CH) (See fig. 33).	
Playback gain Equipment: * VTVM * Oscilloscope * Test tape··· QZZLFB	1. Test equipment connection is shown in fig. 16. 2. Playback standard recording level portion on test tape (QZZLFB 333 Hz), and using VTVM measure the output level at LINE OUT jack. 3. Make measurement for both channels. **Standard value: 0.58±0.03 V** **Adjustment method** 1. If measured value is not in standard, adjust VR203 (L-CH), VR204 (R-CH) (See fig. 33). 2. After adjustment, check "Playback frequency response" again.	* Playback mode * Output level control···MAX
Source monitor level Equipment: * VTVM * AF oscillator * ATT * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 21** 2. Supply 1 kHz signal (−24 dB) from AF oscillator, through ATT to LINE IN jack. 3. Set the monitor switch to source. 4. Measure the output level on VTVM at LINE OUT jack. **Standard value: 0.58±0.02 V** 5. If measured value is not within standard, adjust VR5 (L-CH), VR6 (R-CH) shown in fig. 33.	* LINE IN level control ·····MAX * Output level control···MAX * Monitor switch···SOURCE
Level meter	1. After measurement and adjustment of source monitor level, check whether the level meter indicates 0 dB. 2. If inditation of level meter is not correct, adjust VR15 (L-CH), VR16 (R-CH) so that level meter indicates 0 dB.	

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Playback S/N ratio Equipment: * VTVM * Oscilloscope * Test tape··· QZZLFB * Empty cassette	1. Test equipment connection is shown in fig. 16. 2. Playback standard recording level test tape (QZZLFB 333Hz) and read output level on VTVM. Refer to "Playback gain adjustment" 3. Place UNIT into pause mode. 4. Measure noise level at this time using VTVM, and determine ratio of this level to test tape output signal voltage (333Hz). **Standard value: Greater than 50dB**	* Playback mode * Output level control···MAX
Bias leak Equipment: * VTVM * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 22** 2. Place UNIT into record mode. 3. Adjust trap coil L301 (L-CH), L302 (R-CH), so that measured value become minimum. 4. Take adjustment for both channels.	* Record mode
Bias current Equipment: * VTVM * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 23** 2. Mount cassette tape (type I) and place unit into record mode. 3. Read voltage on VTVM and calculate bias current by following formula: $\text{Bias current (A)} = \frac{\text{Value read on VTVM (V)}}{10(\Omega)}$ 4. Then change cassette tape to type II and type III, measure bias current as same as above. **Standard value:** **2mA (type I)** **2.3mA (type II)** **3.0mA (type III)**	* Record mode

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	5. If measured values are not standard value, adjust the following VR. type I ····· VR303 (L-CH) VR304 (R-CH) type II ····· VR302 type III ····· VR301	
Erase current Equipment: * VTVM * Oscilloscope	1. Test equipment connection is shown below.  **Fig. 24** 2. Place UNIT into record mode and, measure voltage across the 1Ω resistor. 3. Determine erase current with the following formula: $\text{Erase current (A)} = \frac{\text{Voltage across 1Ω resistor (V)}}{\text{1 (Ω)}}$ **Standard value: 50±20mA (type I)** **80±30mA (type III)**	* Record mode
Overall gain Equipment: * AF oscillator * VTVM * ATT * Oscilloscope * Test tape (reference blank tape) QZZLRA1 (for type I) QZZLRA2 (for type II) QZZLRA3 (for type III)	1. Test equipment connection is shown in fig. 25.  **Fig. 25** 2. Supply 1kHz signal (−24dB) from AF oscillator, through ATT, to LINE IN. 3. Set the monitor switch to tape. 4. Using test tape (QZZLRA1, QZZLRA2 and QZZLRA3), make recording. 5. Then measure the monitor output level at LINE OUT on VTVM. 6. If measured value is not 0.58V, adjust the following VR. type I ·····VR7 (L-CH), VR8 (R-CH) type II ·····VR9 (L-CH), VR10 (R-CH) type III·····VR11 (L-CH), VR12 (R-CH)	* Record/playback mode * line in level control ···MAX * Output level control···MAX * Standard input level: MIC ····· −72±3dB LINE IN ··· −24±3dB * Monitor switch ····· TAPE

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Overall distortion Equipment: * Distortion meter * AF oscillator * ATT * Oscilloscope * Test tape (reference blank tape) QZZLRA1 (for type I) QZZLRA2 (for type II) QZZLRA3 (for type III)	1. Test equipment connection is shown in fig. 26.  **Fig. 26** 2. Set the monitor switch to tape. 3. Supply 1 kHz signal to LINE IN and adjust ATT so that monitor output level at LINE OUT indicates 0.58 V. 4. Measure distortion factor of output signal. 5. When the distortion factor does not satisfy the standard, check the bias current. When the bias current is lower than standard, distortion will increase. Care should be exercised in the adjustment because the bias curent also has an influence on the overall frequency response. Refer to "The overall frequency response" and "The bias current adjustment". **Standard value: Less than 2%**	* LINE IN level control ·····MAX * Output level control···MAX * Monitor switch ·····TAPE
Overall frequency response Equipment: * VTVM * AF oscillator * ATT * Oscilloscope * Test tape (reference blank tape) QZZLRA1 (for type I) QZZLRA2 (for type II) QZZLRA3 (for type III)	**Note:** Before measuring and adjusting, make sure of the playback frequency response. 1. Test equipment connection is shown in fig. 25. 2. Set the monitor switch to tape and supply 1 kHz signal (−44 dB) from AF oscillator, through ATT to LINE IN jack. 3. Using test tape (QZZLRA1, QZZLRA2 and QZZLRA3), and place unit into record mode. 4. Change frequency of input signal 30 Hz, 50 Hz, 100 Hz, 500 Hz, 2 kHz, 4 kHz, 8 kHz, 10 kHz, 15 kHz, 18 kHz. 5. At this time, measure the recording monitor level at LINE OUT jack on VTVM. 6. Then express in dB the difference between monitor output level of each frequency based on monitor output level of 1 kHz. 7. Make sure that the measured value is within the range specified in the overall frequency response chat. Overall frequency response chart (type I)  **Fig. 27**	* Record mode * LINE IN level control ·····MAX * Output level control···MAX * Monitor switch ·····TAPE

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS

Overall frequency response chart (type II, type III)

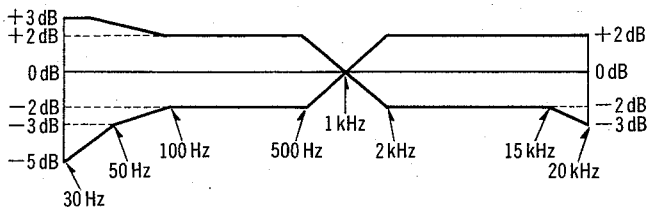


Fig. 28

Adjustment-1 (Using bias current)

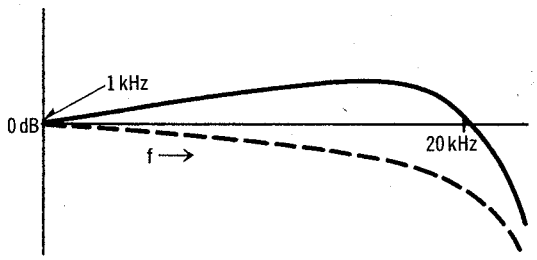


Fig. 29

When the frequency response between the middle and high frequency range becomes higher or lower than the standard value as shown by the solid line or the dotted line in fig. 29. Adjust the bias current by turning the following VR.

type I ·····VR303 (L-CH), VR304 (R-CH)
type II·····VR302
type III·····VR301

Adjustment-2 (Using peaking coil)

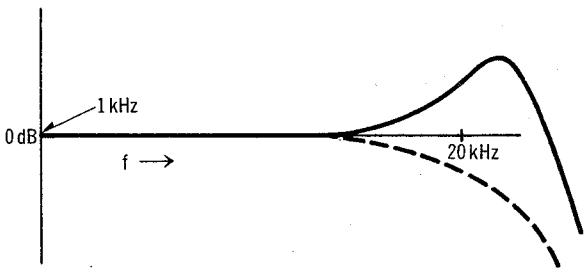
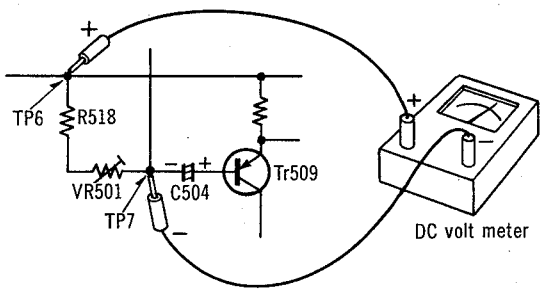


Fig. 30

When the frequency response is flat in the middle frequency range and makes a sharp rise or drop in the high frequency range as shown in fig. 30. Adjust by turning the following peaking coils.

type I ·····L1 (L-CH), L2 (R-CH)
type II·····L3 (L-CH), L4 (R-CH)
type III·····L5 (L-CH), L6 (R-CH)

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Overall S/N ratio Equipment: * VTVM * AF oscillator * ATT * Oscilloscope * Test tape ··· QZZLRA1 (reference blank tape)	1. Test equipment connection is shown in fig. 25. 2. Supply 1 kHz signal to LINE IN and adjust ATT so that output level at LINE OUT indicates 0.58 V. 3. Set the monitor switch to tape. 4. Make recording. 5. Make another recording without supplying signal (disconnect inpuit plug to LINE IN). 6. Measure output signal level and no signal level (noise), and determine the ratio in decibels (dB). 7. The value is difference between "Playback S/N and overall S/N", but for decibel calculation refer to "Playback S/N measurement" on page 10. **Standard value: Greater than 47 dB (without NAB filter)**	* Record mode * LINE IN level control ·····MAX * Output level control···MAX * Monitor switch ·····TAPE
Auto-stop Equipment * DC volt meter	1. Test equipment connection is shown in fig. 31. 2. Lock the FF button without cassette tape inserted. (FF button can be locked by pushing it down for about 5 seconds.) 3. Using DC volt meter, measure the voltage between TP6 and TP7 shown in fig. 32. **Standard value: 7±0.5 V** 4. If measured value is not within standard, adjust VR501.  **Fig. 31**	

TEST POINTS LOCATION

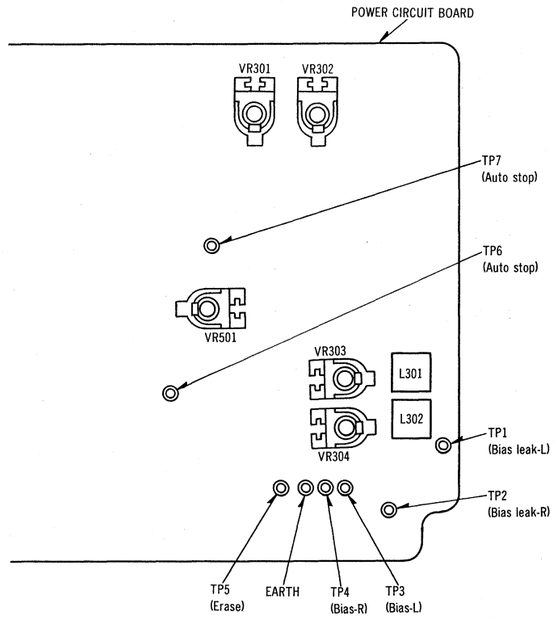


Fig. 32

ADJUSTMENT PARTS LOCATION

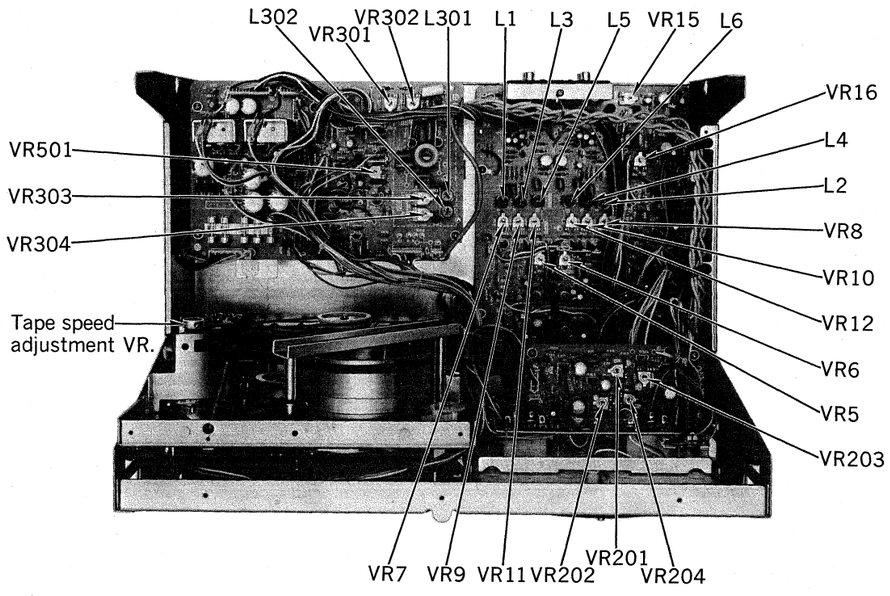
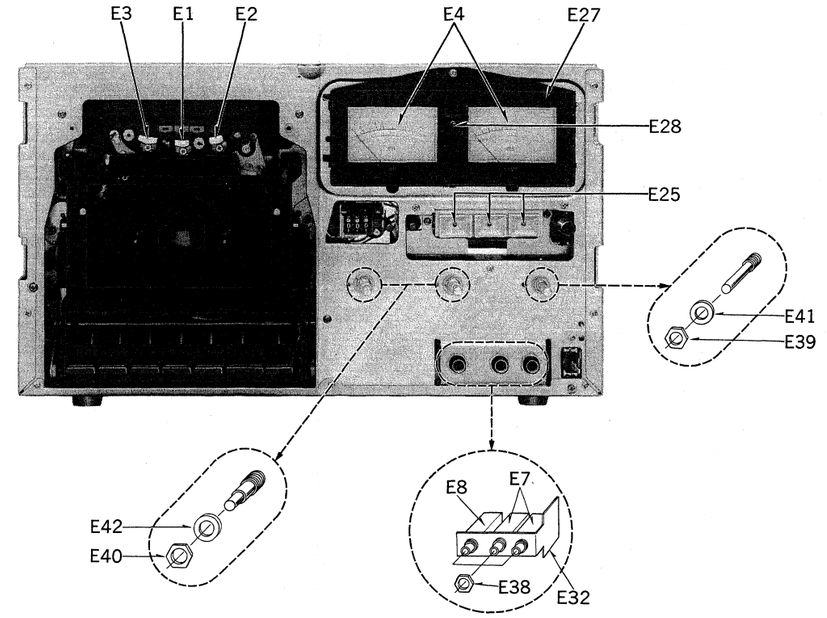
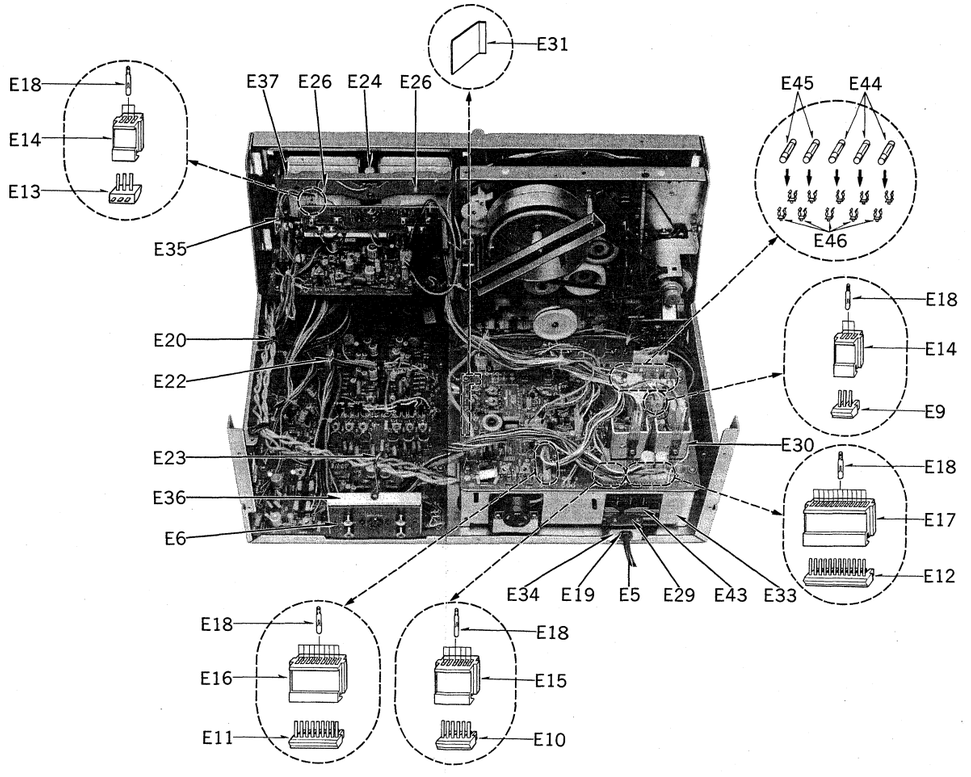


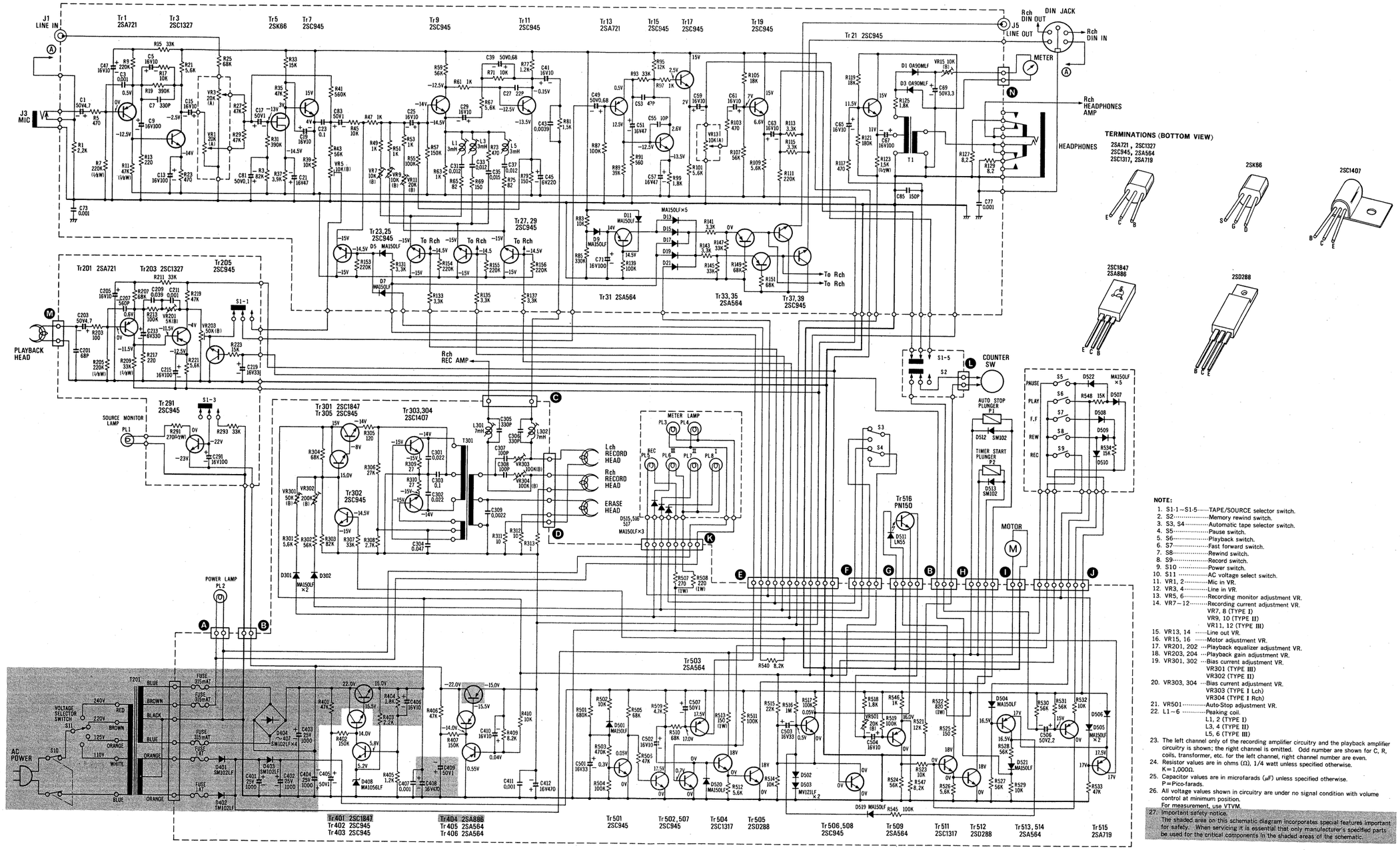
Fig. 33

ELECTRICAL PARTS LOCATION





SCHEMATIC DIAGRAM MODEL RS-7500US

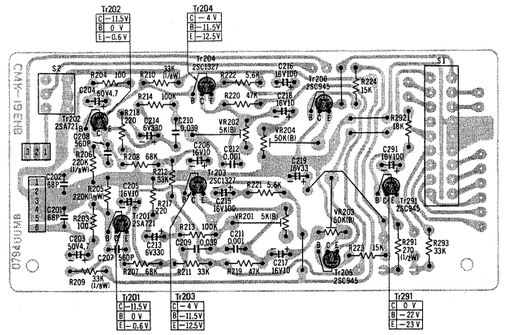


NOTE:

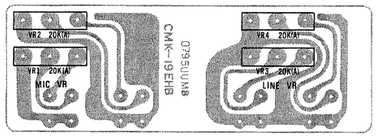
1. S1-1~S1-5.....TAPE/SOURCE selector switch.
2. S2.....Memory rewind switch.
3. S3, S4.....Automatic tape selector switch.
4. S5.....Pause switch.
5. S6.....Playback switch.
6. S7.....Fast forward switch.
7. S8.....Rewind switch.
8. S9.....Record switch.
9. S10.....Power switch.
10. S11.....AC voltage select switch.
11. VR1, 2.....Mic in VR.
12. VR3, 4.....Line in VR.
13. VR5, 6.....Recording monitor adjustment VR.
14. VR7~12.....Recording current adjustment VR.
    VR7, 8 (TYPE I)
    VR9, 10 (TYPE II)
    VR11, 12 (TYPE III)
15. VR13, 14.....Line out VR.
16. VR15, 16.....Motor adjustment VR.
17. VR201, 202.....Playback equalizer adjustment VR.
18. VR203, 204.....Playback gain adjustment VR.
19. VR301, 302.....Bias current adjustment VR.
    VR301 (TYPE III)
    VR302 (TYPE II)
20. VR303, 304.....Bias current adjustment VR.
    VR303 (TYPE I Lch)
    VR304 (TYPE I Rch)
21. VR501.....Auto-Stop adjustment VR.
22. L1~6.....Peaking coil.
    L1, 2 (TYPE I)
    L3, 4 (TYPE II)
    L5, 6 (TYPE III)
23. The left channel only of the recording amplifier circuitry and the playback amplifier circuitry is shown; the right channel is omitted. Odd number are shown for C, R, coils, transformer, etc. for the left channel, right channel number are even.
24. Resistor values are in ohms (Ω), 1/4 watt unless specified otherwise.
    K=1,000Ω.
25. Capacitor values are in microfarads (μF) unless specified otherwise.
    P=Pico-farads.
26. All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
    For measurement, use VTVM.
27. Important safety notice.
    The shaded area on this schematic diagram incorporates special features important for safety. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

CIRCUIT BOARD

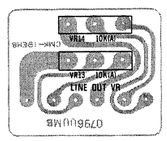
PLAYBACK EQUALIZER CIRCUIT BOARD



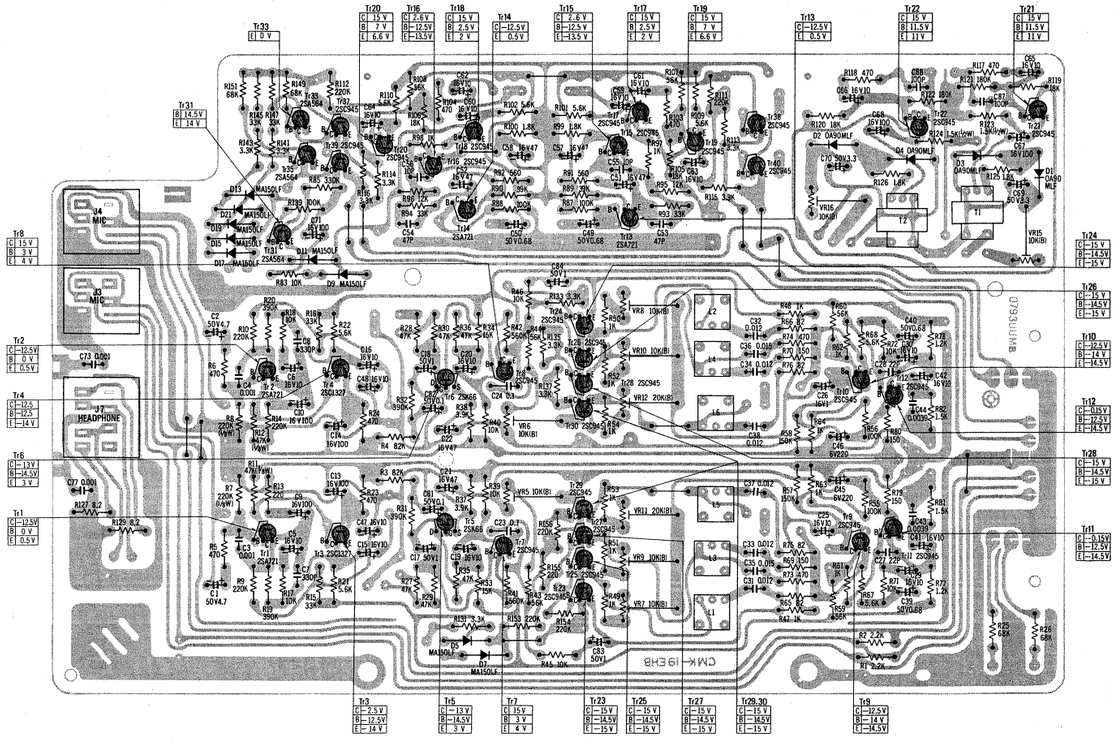
CONTROL CIRCUIT BOARD



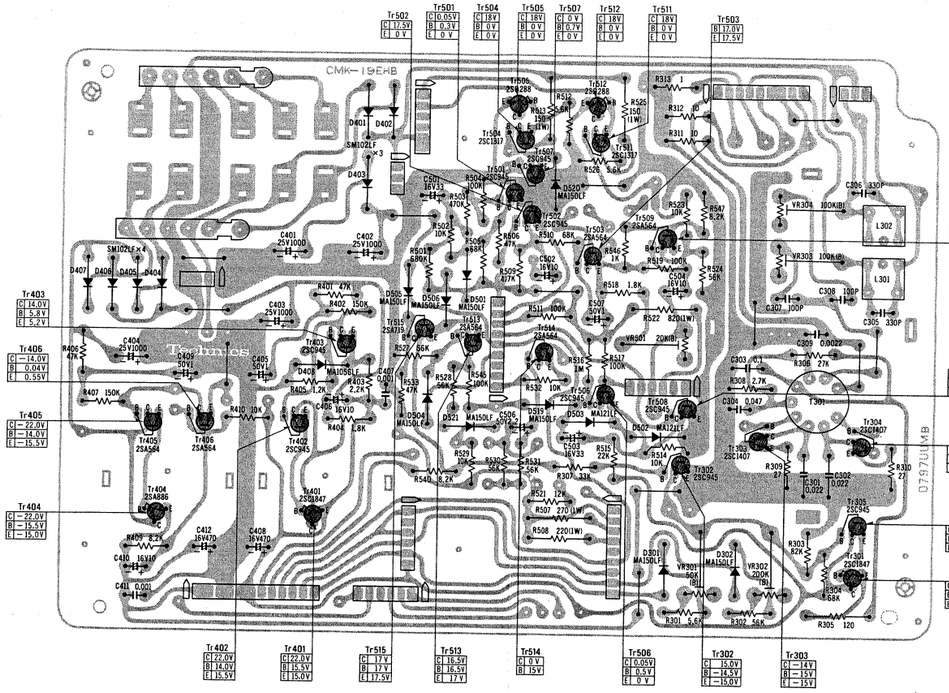
CONTROL CIRCUIT BOARD



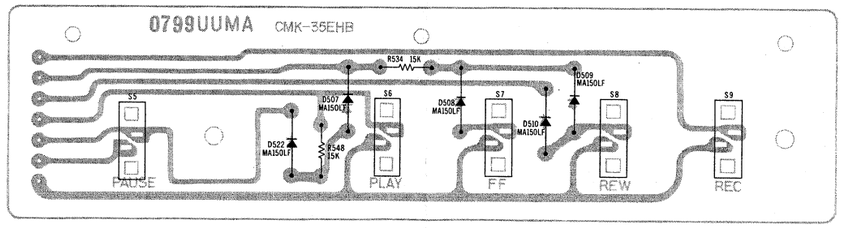
MAIN CIRCUIT BOARD



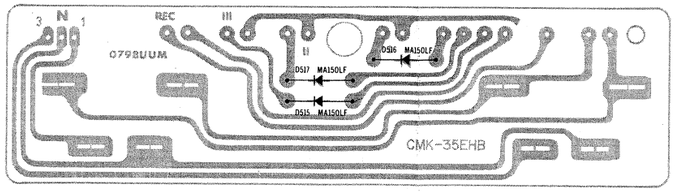
POWER CIRCUIT BOARD



PUSH BUTTON CONTROL CIRCUIT BOARD



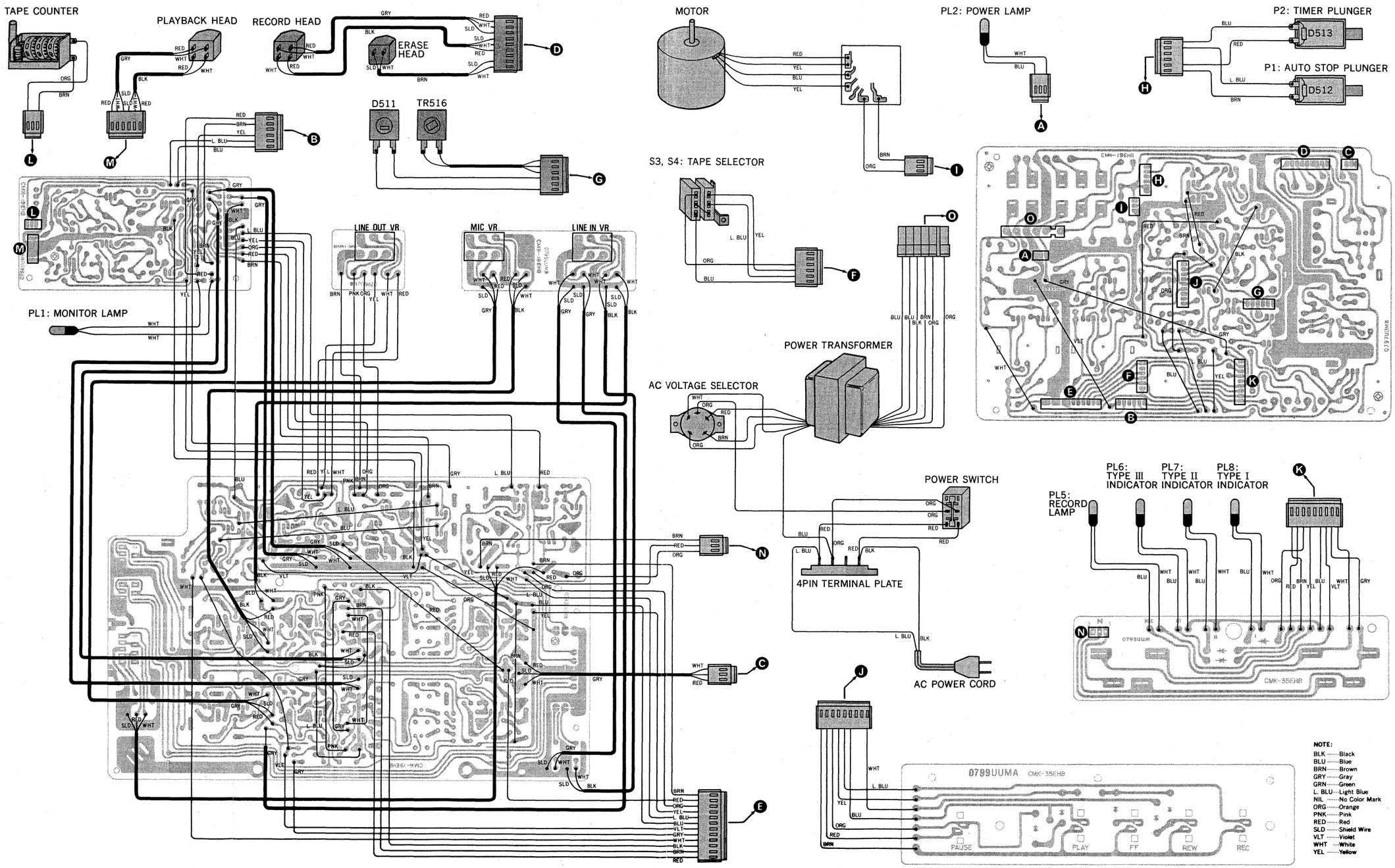
METER CIRCUIT BOARD



NOTE:

The circuit shown in red on the conductor is B circuit. Values indicated in ▭ are DC voltages between the chassis and electrical parts.

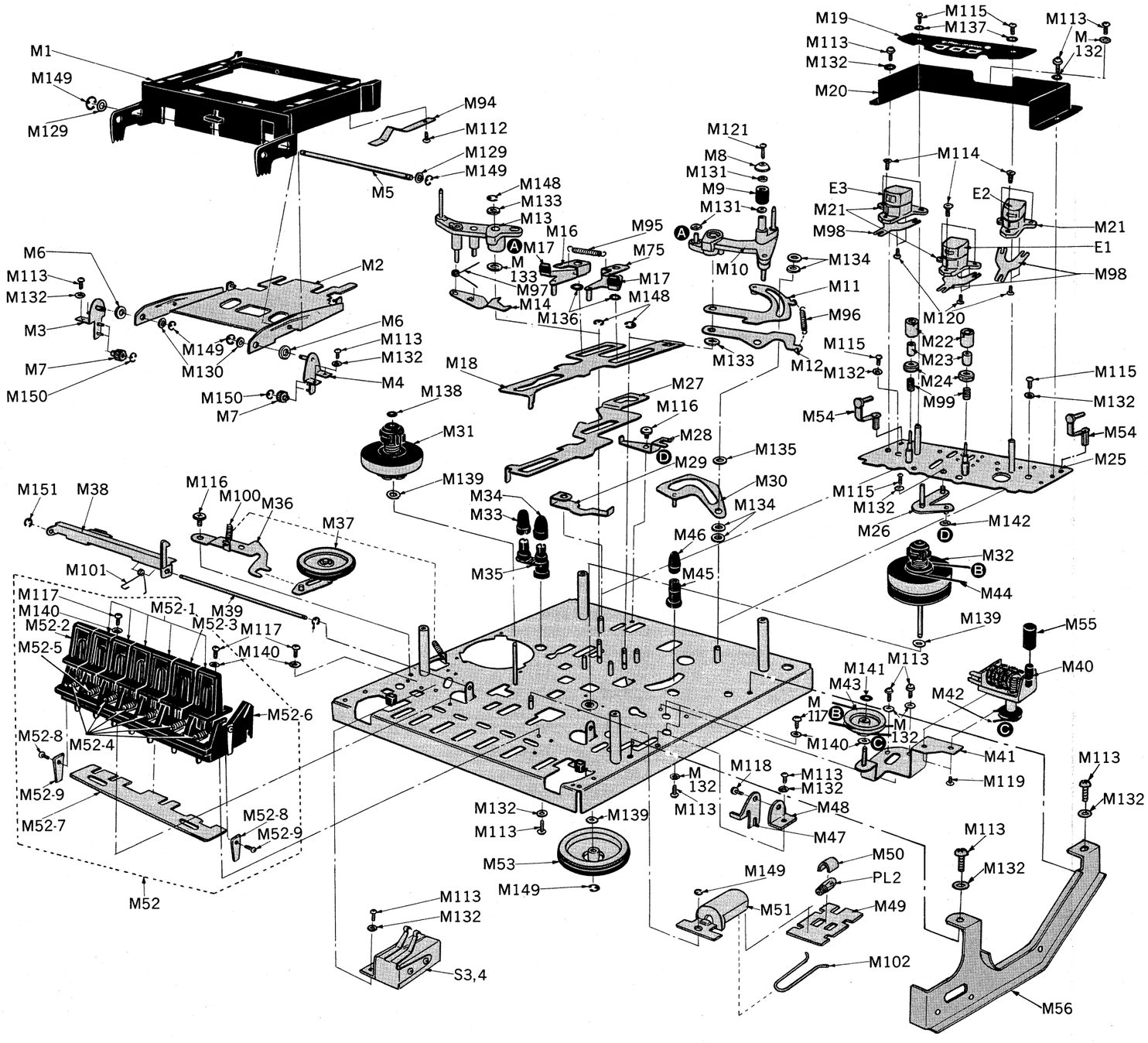
WIRING CONNECTION DIAGRAM MODEL RS-7500US

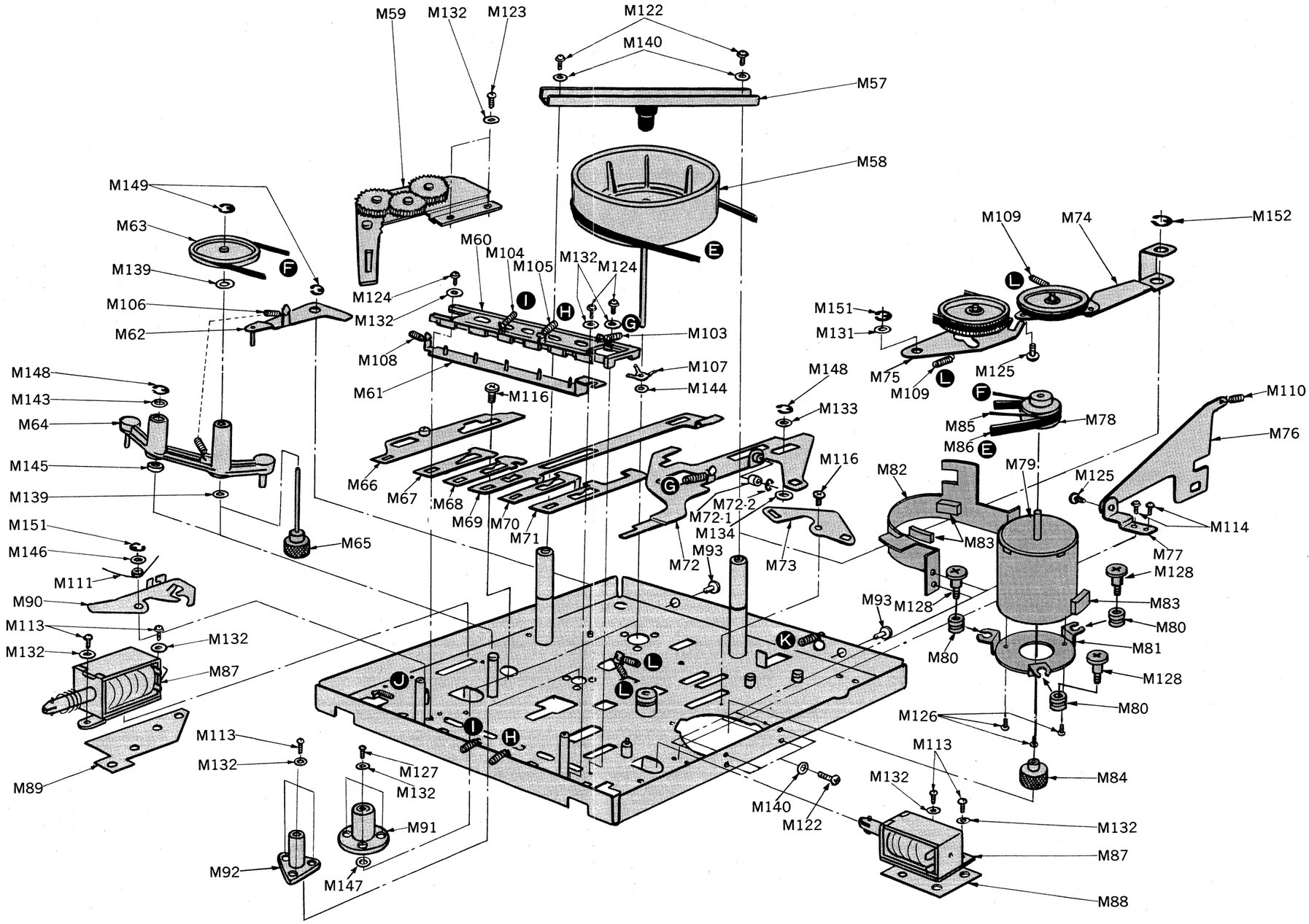


NOTE:

BLK ·····Black
BLU ·····Blue
BRN·····Brown
GRY ·····Gray
GRN·····Green
L. BLU···Light Blue
NIL ·····No Color Mark
ORG·····Orange
PNK·····Pink
RED·····Red
SLD ·····Shield Wire
VLT ·····Violet
WHT ···White
YEL ·····Yellow

EXPLODED VIEWS




M59
M132
M123
M122
M140
M57
M58
M149
M63
M139
M106
M62
M60
M104
M105
M132
M124
M124
M132
M103
M108
M107
M61
M144
M116
M148
M143
M64
M145
M139
M151
M146
M111
M90
M113
M132
M132
M87
M89
M65
M66
M67
M68
M69
M70
M71
M72
M93
M72-2
M72-1
M134
M73
M116
M133
M148
M109
M74
M152
M151
M131
M75
M109
M125
M85
M78
M86
M79
M82
M83
M125
M110
M76
M114
M77
M128
M83
M80
M81
M128
M80
M93
M128
M80
M126
M113
M84
M132
M132
M87
M88
M140
M122
M113
M132
M127
M132
M91
M92
M147
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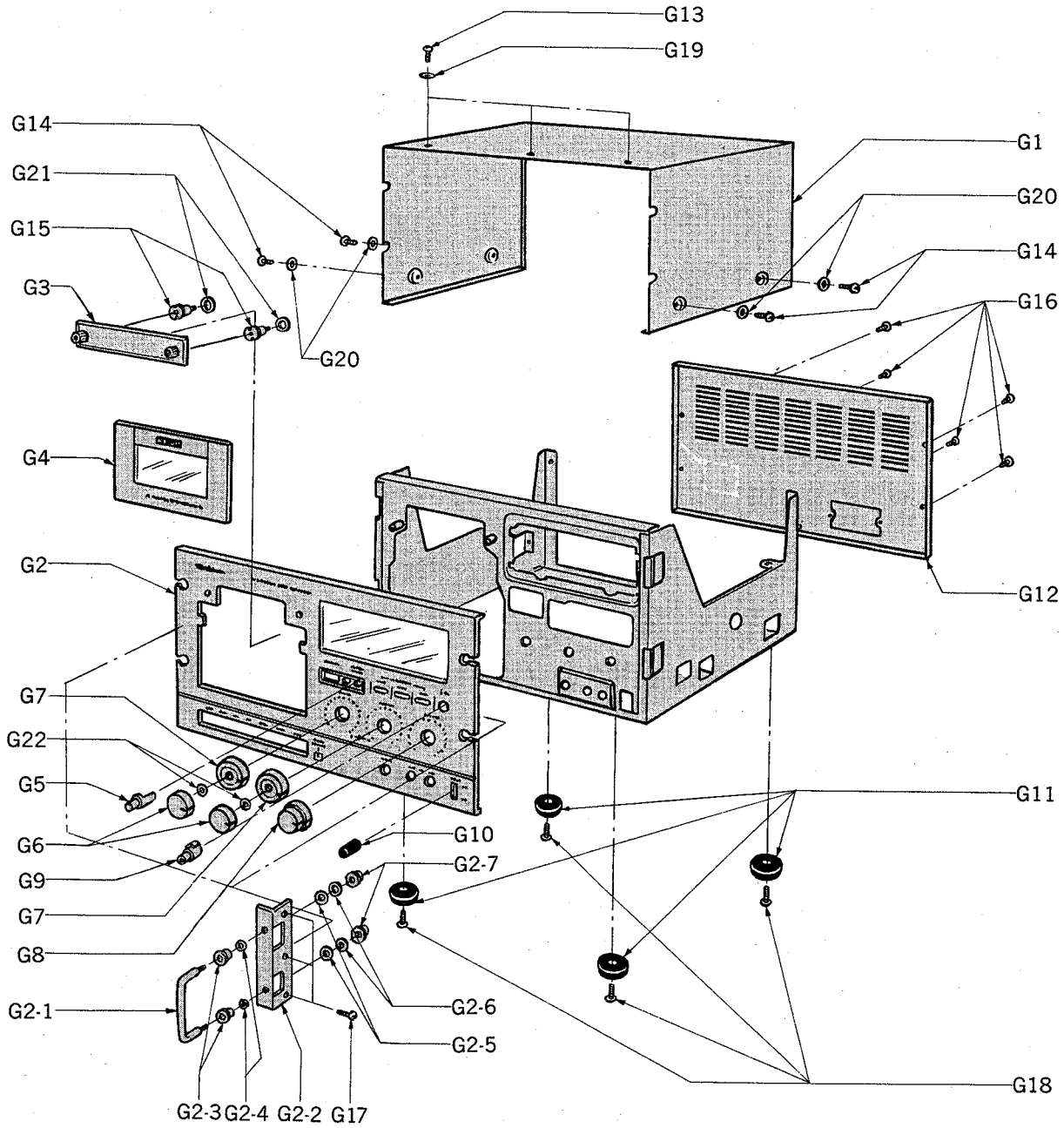
H

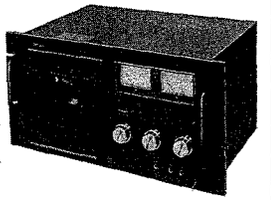
CABINET PARTS



REPLACEMENT PARTS LIST

MODEL RS-7500US (Technics)

ATTENTION:
Important safety notice.
Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.



RS-7500US

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
			MECHANICAL PARTS		
M1		QMH2012A	Cassette Holder	1	
M2		QXH0245	Cassette Base Plate Assembly	1	
M3		QXA0581	Cassette Base Plate Holding Angle-L	1	
M4		QXA0582	Cassette Base Plate Holding Angle-R	1	
M5		QMN2166	Cassette Holder Shaft	1	
M6		QMC0062	Collar	2	
M7		QDG1102	Cassette Holder Gear	2	
M8		QGK2692A	Cap	1	
M9		QXP0549A	Pressure Roller Assembly	1	
M10		QXL1041A	Pressure Roller Lever Assembly	1	
M11		QXL1061	Pressure Roller Guide Plate	1	
M12		QML3112	Pressure Roller Arm	1	
M13		QXL1042	Tape Shift Lever	1	
M14		QML3106	Pawl Lever	1	
M15		QXL1065	Takeup Brake Lever Assembly	1	
M16		QXL1067	Supply Brake Lever Assembly	1	
M17		QBG1572A	Brake Rubber	2	
M18		QMR1552A	Playback Rod	1	
M19		QMF1881	Head Cover-A	1	
M20		QMA3007	Head Cover-B	1	
M21		QMZ1192A	Head Holding Plate	3	
M22		QNQ1072A	Tape Limiter Holding Nut	2	
M23		QMC0058	Tape Limiter Collar	2	
M24		QMC0059	Tape Limiter	2	
M25		QXK1846	Head Base Plate Assembly	1	
M26		QXR0285	Shifter Rod Assembly	1	
M27		QMR1553A	Fast Wind Rod	1	
M28		QML3073	Shift Lever	1	
M29		QML3114	Release Lever	1	
M30		QXH0243	Cam Lever Assembly	1	
M31		QXD0072	Supply Reel Table Assembly	1	
M32		QXD0073	Takeup Reel Table Assembly	1	
M33		QGL1114	Illuminate Diode Cover	1	
M34		QGL1113	Transistor (Tr516) Cover	1	
M35		QMP1630A	Standard Pole-A	1	
M36		QML3069	Rewind Arm	1	
M37		QXA0577	Rewind Idler Lever Assembly	1	
M38		QXA0576	Record Lock Plate Assembly	1	
M39		QMN2165	Lock Plate Shaft	1	
M40		QDC0066	Tape Counter	1	
M41		QXA0579	Counter Angle Assembly	1	
M42		QDB0084	Counter Belt-A	1	
M43		QDP1721	Connection Pulley	1	
M44		QDB0207	Counter Belt-B	1	
M45		QMP1629A	Standard Pole-B	1	
M46		QGL1113	Cap	1	
M47		QML3105	Pause Button Release Lever	1	
M48		QMA2987	Release Lever Holding Angle	1	
M49		QMF1882	Reflection Plate	1	
M50		QMH2011	Lamp Holder	1	
M51		QGL1115A	Lamp Cover	1	
M52		QXB0452A	Push Button Assembly	1	
M52-1		QGO1317	Push Button	5	
M52-2		QGO1318	Push Button (Eject)	1	
M52-3		QGO1319	Push Button (Stop)	1	
M52-4		QBT1830DM	Pause Button Spring	6	
M52-5		QBT1582DM	Fast Forward Lever Spring	1	
M52-6		QMH2013	Push Button Frame	1	
M52-7		QMR1570	Operation Rod	1	
M52-8		QBP1734A	Rod Release Plate	2	
M52-9		XTN26+6B	Tapping Screw ⊕2.6×6	2	

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
M53		QXI0097A	Fast Forward Idler Assembly	1	
M54		QTD1253	Wire Clamper	3	
M55		QGK9073	Tape Counter Button	1	
M56		QMA3031	Mechanism Holding Angle	1	
M57		QXH0240	Flywheel Retainer Assembly	1	
M58		QXF0124B	Flywheel Assembly	1	
M59		QXG1028	Gear Damper Assembly	1	
M60		QGG0087	Rod Guide	1	
M61		QXH0237	Lock Plate Assembly	1	
M62		QXL1062	Pause Lever Assembly	1	
M63		QDP1718A	Playback Connection Pulley	1	
M64		QXL1043	Playback Lever Assembly	1	
M65		QXS1083	Pulley Shaft	1	
M66		QXR0284	Pause Rod Assembly	1	
M67		QMR1557	Stop Rod	1	
M68		QMR1556A	Playback Rod	1	
M69		QMR1554	Fast Forward Rod	1	
M70		QMR1558A	Rewind Rod	1	
M71		QMR1559	Record Rod	1	
M72		QXR0282	Eject Rod Assembly	1	
M72-1		QDP1728A	Roller	1	
M72-2		XUC2FT	Stop Ring 2φ	1	
M73		QXH0244	Connection Lever	1	
M74		QXL1130	Fast Wind Arm-A Assembly	1	
M75		QXH0226	Fast Wind Arm-B Assembly	1	
M76		QML3071B	Eject Operation Lever	1	
M77		QMA2999A	Operation Lever Holding Angle	1	
M78		QXP0553	Motor Pulley-A Assembly	1	
M78-1		XXE26D5P	Set Screw	1	
M79		MAX15A2LA	Motor	1	
M80		QBG1431	Motor Rubber Cushion-A	3	
M81		QMA3162	Motor Holding Angle-A	1	
M82		QMA3161	Motor Holding Angle-B	1	
M83		QBG1593	Motor Rubber Cushion-B	3	
M84		QXP0554	Motor Pulley-B Assembly	1	

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Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
M84-1		XXE26D5P	Set Screw	1	
M85		QDB0231	Takeup Reel Table Belt	1	
M86		QDB0230	Capstan Belt	1	
M87		QME0145	Plunger	2	
M88		QMF1887	Plunger Holding Plate-A	1	
M89		QMF1888	Plunger Holding Plate-B	1	
M90		QML3068A	Lock Arm	1	
M91		QXM0153	Capstan Metal Assembly	1	
M92		QXM0154	Reel Table Metal Assembly	1	
M93		QBG1112A	Rubber Cushion	2	
M94		QBP1727B	Cassette Pressure Spring	2	
M95		QBT1604M	Eject Lever Spring	1	
M96		QBT1831DM	Pressure Roller Spring	1	
M97		QBN1521B	Shift Lever Spring	1	
M98		QBP1728	Head Pressure Spring	3	
M99		QBC1278A	Head Spring	2	
M100		QBT1583M	Record Lever Spring	1	
M101		QBN1525	Lock Plate Spring	1	
M102		QBN1526	Lamp Cover Spring	1	
M103		QBT1827C	Rod Release Spring	1	
M104		QBT1486DM	Record Lever Spring	1	
M105		QBTA0008	Takeup Lever Spring	1	
M106		QBT1236M	Brake Spring	1	
M107		QBP1726	Thrust Spring	1	
M108		QBT1701M	Fast Forward Lever Spring	1	
M109		QBT1269	Push Button Rod Spring	2	
M110		QBT1435M	Release Lever Spring	1	
M111		QBN1522	Lock Arm Spring	1	
M112		XTN2+4B	Tapping Screw ⊕2×4	2	
M113		XSN26+6	Screw ⊕2.6×6	20	
M114		XSS26+10	Screw ⊕2.6×10	11	
M115		XSN26+6BV	Screw ⊕2.6×6	5	
M116		QHQ1168	Step Screw	4	
M117		XSN3+5S	Screw ⊕3×5	2	
M118		QHQ1161	Step Screw	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
M119	XSS3+6S	Screw ⊕3×6	2	
M120	XQS2+8	Screw ⊕2×8	6	
M121	XSS2+10BN	Screw ⊕2×10	1	
M122	XSN3+6S	Screw ⊕3×6	6	
M123	XSN26+4	Screw ⊕2.6×4	2	
M124	XSN26+10	Screw ⊕2.6×10	3	
M125	XSNQ0004S	Screw	2	
M126	XSN3+4S	Screw ⊕3×4	3	
M127	XSN26+8	Screw ⊕2.6×8	3	
M128	QMS1833	Step Screw	3	
M129	QBK7143	Fiber Washer	2	
M130	QBK7005	〃	2	
M131	QBW2016	Washer	4	
M132	XWA26B	Spring Washer 2.6φ	28	
M133	QBW2020	Washer	3	
M134	QBW2054	〃	5	
M135	QBK7130	Fiber Washer	1	
M136	QBK7027	〃	2	
M137	XWE3FZ	Flat Washer	2	
M138	QBW2017	Washer	1	
M139	QBW2019	〃	6	
M140	XWA3B	Spring Washer 3φ	9	
M141	QBW2046	Washer	1	
M142	QBK7123	Fiber Washer	1	
M143	QBW2021	Washer	1	
M144	QBW2018	〃	1	
M145	QMC0057	Spacer	1	
M146	XWG3	Washer	1	
M147	QBW2056	〃	1	
M148	XUC4FT	Stop Ring 4φ	4	
M149	XUC3FT	Stop Ring 3φ	8	
M150	XUC5FT	Stop Ring 5φ	2	
M151	XUC25FT	Stop Ring 2.5φ	5	
M152	XUC7FT	Stop Ring 7φ	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		RESISTORS		
R1, 2	ERD25TJ222	Carbon Resistor 2.2KΩ 1/4W	2	
R3, 4	ERD25TJ823	〃 82KΩ 1/4W	2	
R5, 6	ERD25TJ471	〃 470Ω 1/4W	2	
R7, 8	ERD18TSJ224	〃 220KΩ 1/8W	2	
R9, 10	ERD25TJ224	〃 220KΩ 1/4W	2	
R11, 12	ERD18TSJ473	〃 47KΩ 1/8W	2	
R13, 14	ERD25TJ221	〃 220Ω 1/4W	2	
R15, 16	ERD25TJ333	〃 33KΩ 1/4W	2	
R17, 18	ERD25TJ103	〃 10KΩ 1/4W	2	
R19, 20	ERD25TJ394	〃 390KΩ 1/4W	2	
R21, 22	ERD25TJ562	〃 5.6KΩ 1/4W	2	
R23, 24	ERD25TJ471	〃 470Ω 1/4W	2	
R25, 26	ERD25TJ683	〃 68KΩ 1/4W	2	
R27, 28, 29, 30	ERD25TJ473	〃 47KΩ 1/4W	4	
R31, 32	ERD25TJ394	〃 390KΩ 1/4W	2	
R33, 34	ERD25TJ153	〃 15KΩ 1/4W	2	
R35, 36	ERD25TJ473	〃 47KΩ 1/4W	2	
R37, 38	ERD25TJ392	〃 3.9KΩ 1/4W	2	
R39, 40	ERD25TJ103	〃 10KΩ 1/4W	2	
R41, 42	ERD25TJ564	〃 560KΩ 1/4W	2	
R43, 44	ERD25TJ563	〃 56KΩ 1/4W	2	
R45, 46	ERD25TJ103	〃 10KΩ 1/4W	2	
R47, 48, 49, 50, 51, 52, 53, 54				
	ERD25TJ102	〃 1KΩ 1/4W	8	
R55, 56	ERD25TJ104	〃 100KΩ 1/4W	2	
R57, 58	ERD25TJ154	〃 150KΩ 1/4W	2	
R59, 60	ERD25TJ563	〃 56KΩ 1/4W	2	
R61, 62, 63, 64	ERD25TJ102	〃 1KΩ 1/4W	4	
R65, 66	ERD25TJ820	〃 82Ω 1/4W	2	
R67, 68	ERD25TJ562	〃 5.6KΩ 1/4W	2	
R69, 70	ERD25TJ151	〃 150Ω 1/4W	2	
R71, 72	ERD25TJ103	〃 10KΩ 1/4W	2	
R73, 74	ERD25TJ471	〃 470Ω 1/4W	2	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
R75, 76	ERD25TJ820	Carbon Resistor 82Ω 1/4W	2	
R77, 78	ERD25TJ122	〃 1.2KΩ 1/4W	2	
R79, 80	ERD25TJ151	〃 150Ω 1/4W	2	
R81, 82	ERD25TJ152	〃 1.5KΩ 1/4W	2	
R83	ERD25TJ103	〃 10KΩ 1/4W	1	
R85	ERD25TJ334	〃 330KΩ 1/4W	1	
R87, 88	ERD25TJ104	〃 100KΩ 1/4W	2	
R89, 90	ERD25TJ393	〃 39KΩ 1/4W	2	
R91, 92	ERD25TJ561	〃 560Ω 1/4W	2	
R93, 94	ERD25TJ333	〃 33KΩ 1/4W	2	
R95, 96	ERD25TJ123	〃 12KΩ 1/4W	2	
R97, 98	ERD25TJ102	〃 1KΩ 1/4W	2	
R99, 100	ERD25TJ182	〃 1.8KΩ 1/4W	2	
R101, 102	ERD25TJ562	〃 5.6KΩ 1/4W	2	
R103, 104	ERD25TJ471	〃 470Ω 1/4W	2	
R105, 106	ERD25TJ183	〃 18KΩ 1/4W	2	
R107, 108	ERD25TJ563	〃 56KΩ 1/4W	2	
R109, 110	ERD25TJ562	〃 5.6KΩ 1/4W	2	
R111, 112	ERD25TJ224	〃 220KΩ 1/4W	2	
R113, 114, 115, 116				
	ERD25TJ332	〃 3.3KΩ 1/4W	4	
R117, 118	ERD25TJ471	〃 470Ω 1/4W	2	
R119, 120	ERD25TJ183	〃 18KΩ 1/4W	2	
R121, 122	ERD25TJ184	〃 180KΩ 1/4W	2	
R123, 124	ERG12ANJ152	Metal-oxide Resistor 1.5KΩ 1/2W	2	
R125, 126	ERD25TJ182	Carbon Resistor 1.8KΩ 1/4W	2	
R127, 129	ERD25TJ8R2	〃 8.2Ω 1/4W	2	
R131, 133, 135, 137				
	ERD25TJ332	〃 3.3KΩ 1/4W	4	
R139	ERD25TJ104	〃 100KΩ 1/4W	1	
R141, 143	ERD25TJ332	〃 3.3KΩ 1/4W	2	
R145, 147	ERD25TJ333	〃 33KΩ 1/4W	2	
R149, 151	ERD25TJ683	〃 68KΩ 1/4W	2	
R153, 154, 155, 156				
	ERD25TJ224	〃 220KΩ 1/4W	4	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
R203, 204	ERD25TJ101	Carbon Resistor 100Ω 1/4W	2	
R205, 206	ERD18TSJ224	〃 220KΩ 1/8W	2	
R207, 208	ERD25TJ683	〃 68KΩ 1/4W	2	
R209, 210	ERD18TSJ333	〃 33KΩ 1/8W	2	
R211, 212	ERD25TJ333	〃 33KΩ 1/4W	2	
R213, 214	ERD25TJ104	〃 100KΩ 1/4W	2	
R217, 218	ERD25TJ221	〃 220Ω 1/4W	2	
R219, 220	ERD25TJ473	〃 47KΩ 1/4W	2	
R221, 222	ERD25TJ562	〃 5.6KΩ 1/4W	2	
R223, 224	ERD25TJ153	〃 15KΩ 1/4W	2	
R291	ERG12ANJ271	Metal-oxide Resistor 270Ω 1/2W	1	
R292	ERD25TJ183	Carbon Resistor 18KΩ 1/4W	1	
R293	ERD25TJ333	〃 33KΩ 1/4W	1	
R301	ERD25TJ562	〃 5.6KΩ 1/4W	1	
R302	ERD25TJ563	〃 56KΩ 1/4W	1	
R303	ERD25TJ823	〃 82KΩ 1/4W	1	
R304	ERD25TJ683	〃 68KΩ 1/4W	1	
R305	ERD25TJ121	〃 120Ω 1/4W	1	
R306	ERD25TJ273	〃 27KΩ 1/4W	1	
R307	ERD25TJ333	〃 33KΩ 1/4W	1	
R308	ERD25TJ272	〃 2.7KΩ 1/4W	1	
R309, 310	ERD25TJ270	〃 27Ω 1/4W	2	
R311, 312	ERD25TJ100	〃 10Ω 1/4W	2	
R313	ERD25TJ1R0	〃 1Ω 1/4W	1	
R401	ERD25TJ473	〃 47KΩ 1/4W	1	
R402	ERD25TJ154	〃 150KΩ 1/4W	1	
R403	ERD25TJ222	〃 2.2KΩ 1/4W	1	
R404	ERD25TJ182	〃 1.8KΩ 1/4W	1	
R405	ERD25TJ122	〃 1.2KΩ 1/4W	1	
R406	ERD25TJ473	〃 47KΩ 1/4W	1	
R407	ERD25TJ154	〃 150KΩ 1/4W	1	
R409	ERD25TJ822	〃 8.2KΩ 1/4W	1	
R410	ERD25TJ103	〃 10KΩ 1/4W	1	
R501	ERD25TJ684	〃 680KΩ 1/4W	1	
R502	ERD25TJ103	〃 10KΩ 1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
R503	ERD25TJ474	Carbon Resistor 470KΩ 1/4W	1	
R504	ERD25TJ104	〃 100KΩ 1/4W	1	
R505	ERD25TJ683	〃 68KΩ 1/4W	1	
R506	ERD25TJ473	〃 47KΩ 1/4W	1	
R507	ERG1ANJ271	Metal-oxide Resistor 270Ω 1W	1	
R508	ERG1ANJ221	〃 220Ω 1W	1	
R509	ERD25TJ472	Carbon Resistor 4.7KΩ 1/4W	1	
R510	ERD25TJ683	〃 68KΩ 1/4W	1	
R511	ERD25TJ105	〃 100KΩ 1/4W	1	
R512	ERD25TJ562	〃 5.6KΩ 1/4W	1	
R513	ERG1ANJ151	Metal-oxide Resistor 150Ω 1W	1	
R514	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	1	
R515	ERD25TJ223	〃 22KΩ 1/4W	1	
R516	ERD25TJ105	〃 1MΩ 1/4W	1	
R517	ERD25TJ104	〃 100KΩ 1/4W	1	
R518	ERD25TJ182	〃 1.8KΩ 1/4W	1	
R519	ERD25TJ104	〃 100KΩ 1/4W	1	
R521	ERD25TJ123	〃 12KΩ 1/4W	1	
R522	ERG1ANJ821	Metal-oxide Resistor 820Ω 1W	1	
R523	ERD25TJ103	Carbon Resistor 10KΩ 1/4W	1	
R524	ERD25TJ563	〃 56KΩ 1/4W	1	
R525	ERG1ANJ151	Metal-oxide Resistor 150Ω 1W	1	
R526	ERD25TJ562	Carbon Resistor 5.6KΩ 1/4W	1	
R527, 528	ERD25TJ563	〃 56KΩ 1/4W	2	
R529	ERD25TJ103	〃 10KΩ 1/4W	1	
R530, 531	ERD25TJ563	〃 56KΩ 1/4W	2	
R532	ERD25TJ103	〃 10KΩ 1/4W	1	
R533	ERD25TJ473	〃 47KΩ 1/4W	1	
R534	ERD25TJ153	〃 15KΩ 1/4W	1	
R540	ERD25TJ822	〃 8.2KΩ 1/4W	1	
R545	ERD25TJ104	〃 100KΩ 1/4W	1	
R546	ERD25TJ102	〃 1KΩ 1/4W	1	
R547	ERD25TJ822	〃 8.2KΩ 1/4W	1	
R548	ERD25TJ153	〃 15KΩ 1/4W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		VARIABLE RESISTORS		
VR1, 2, 3, 4	EWFFWAR20A24	Variable Resistor 20KΩ (A)	4	
VR5, 6, 7, 8, 9, 10				
	EVLS3AA00B14	Semi-fixed Variable Resistor 10KΩ (B)	6	
VR11, 12	EVLS3AA00B24	〃 20KΩ (B)	2	
VR13, 14	EWFN3AR30A14	Variable Resistor 10KΩ (A)	2	
VR15, 16	EVLS3AA00B14	Semi-fixed Variable Resistor 10KΩ (B)	2	
VR201, 202	EVLS3AA00B53	〃 5KΩ (B)	2	
VR203, 204, 301				
	EVLS3AA00B54	〃 50KΩ (B)	3	
VR302	EVLS3AA00B25	〃 200KΩ (B)	1	
VR303, 304	EVLS3AA00B15	〃 100KΩ (B)	2	
VR501	EVLS3AA00B24	〃 20KΩ (B)	1	
		CAPACITORS		
C1, 2	ECEA50M4R7	Electrolytic Capacitor 4.7μF	2	
C3, 4	ECKD1H102PF	Ceramic Capacitor 0.001μF	2	
C5, 6	ECEA16V10	Electrolytic Capacitor 10μF	2	
C7, 8	ECCD1H331K	Ceramic Capacitor 330pF	2	
C9, 10, 13, 14	ECEA16V100	Electrolytic Capacitor 100μF	4	
C15, 16	ECEA16V10	〃 10μF	2	
C17, 18	ECEA50V1	〃 1μF	2	
C19, 20	ECEA16V10	〃 10μF	2	
C21, 22	ECEA16V47	〃 47μF	2	
C23, 24	ECQM05104KZ	Mylar Capacitor 0.1μF	2	
C25, 26	ECEA16V10	Electrolytic Capacitor 10μF	2	
C27, 28	ECCD1H220KC	Ceramic Capacitor 22pF	2	
C29, 30	ECEA16V10	Electrolytic Capacitor 10μF	2	
C31, 32, 33, 34	ECQM05123KZ	Mylar Capacitor 0.012μF	4	
C35, 36	ECQM05153KZ	〃 0.015μF	2	
C37, 38	ECQM05123KZ	〃 0.012μF	2	
C39, 40	ECEA50ZR68	Electrolytic Capacitor 0.68μF	2	
C41, 42	ECEA16V10	〃 10μF	2	
C43, 44	ECQM05392KZ	Mylar Capacitor 0.0039μF	2	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C45, 46	ECEA6V220	Electrolytic Capacitor 220μF	2	
C47, 48	ECEA16V10	〃 10μF	2	
C49, 50	ECEA50ZR68	〃 0.68μF	2	
C51, 52	ECEA16V47	〃 47μF	2	
C53, 54	ECCD1H470KC	Ceramic Capacitor 47pF	2	
C55, 56	ECCD1H100FC	〃 10pF	2	
C57, 58	ECEA16V47	Electrolytic Capacitor 47μF	2	
C59, 60, 61, 62, 63, 64, 65, 66				
	ECEA16V10	〃 10μF	8	
C67, 68	ECEA16V100	〃 100μF	2	
C69, 70	ECEA50V3R3	〃 3.3μF	2	
C71	ECEA16V100	〃 100μF	1	
C73, 77	ECKD1H102PF	Ceramic Capacitor 0.001μF	2	
C81, 82	ECEA50ZR1	Electrolytic Capacitor 0.1μF	2	
C83, 84	ECEA50V1	〃 1μF	2	
C87, 88	ECCD1H101KC	Ceramic Capacitor 100pF	2	
C201, 202	ECCD1H680KC	〃 68pF	2	
C203, 204	ECEA50M4R7	Electrolytic Capacitor 4.7μF	2	
C205, 206	ECEA16V10	〃 10μF	2	
C207, 208	ECKD1H561KB	Ceramic Capacitor 560pF	2	
C209, 210	ECQM05393KZ	Mylar Capacitor 0.039μF	2	
C211, 212	ECQM05102KZ	〃 0.001μF	2	
C213, 214	ECEA6V330	Electrolytic Capacitor 330μF	2	
C215, 216	ECEA16V100	〃 100μF	2	
C217, 218	ECEA16V10	〃 10μF	2	
C219	ECEA16V33	〃 33μF	1	
C291	ECEA16V100	〃 100μF	1	
C301, 302	ECQF4223KZH	Film Capacitor 0.022μF	2	
C303	ECQM05104KZ	Mylar Capacitor 0.1μF	1	
C304	ECQM05473KZ	〃 0.047μF	1	
C305, 306	ECQS1331JZ	Styrol Capacitor 330pF	2	
C307, 308	ECQS1101JZ	〃 100pF	2	
C309	ECQF6222KZH	Film Capacitor 0.0022μF	1	
C401, 402, 403, 404				
	ECEA25V1000	Electrolytic Capacitor 1000μF	4	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C405	ECEA50V1	Electrolytic Capacitor 1μF	1	
C406	ECEA16V10	〃 10μF	1	
C407	ECKD1H102PF	Ceramic Capacitor 0.001μF	1	
C408	ECEA16V470	Electrolytic Capacitor 470μF	1	
C409	ECEA50V1	〃 1μF	1	
C410	ECEA16V10	〃 10μF	1	
C411	ECKD1H102PF	Ceramic Capacitor 0.001μF	1	
C412	ECEA16V470	Electrolytic Capacitor 470μF	1	
C413, 414	ECKD1H102PF	Ceramic Capacitor 0.001μF	2	
C501	ECEA16V33	Electrolytic Capacitor 33μF	1	
C502	ECEA16V10	〃 10μF	1	
C503	ECEA16V33	〃 33μF	1	
C504	ECEA16V10	〃 10μF	1	
C506	ECEA50Z2R2	〃 2.2μF	1	
C507	ECEA50V1	〃 1μF	1	
		TRANSISTORS		
Tr1, 2	2SA721	Transistor	2	
Tr3, 4	2SC1327	〃	2	
Tr5, 6	2SK66	FET	2	
Tr7, 8, 9, 10, 11, 12				
	2SC945	Transistor	6	
Tr13, 14	2SA721	〃	2	
Tr15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30				
	2SC945	〃	16	
Tr31, 33, 35	2SA564	〃	3	
Tr37, 38, 39, 40	2SC945	〃	4	
Tr201, 202	2SA721	〃	2	
Tr203, 204	2SC1327	〃	2	
Tr205, 206, 291				
	2SC945	〃	3	
Tr301	2SC1847	〃	1	
Tr302	2SC945	〃	1	
Tr303, 304	2SC1407	〃	2	
Tr305	2SC945	〃	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
Tr401	2SC1847	Transistor	1	
Tr402, 403	2SC945	〃	2	
Tr404	2SA886	〃	1	
Tr405, 406	2SA564	〃	2	
Tr501, 502	2SC945	〃	2	
Tr503	2SA564	〃	1	
Tr504	2SC1317	〃	1	
Tr505	2SD288	〃	1	
Tr506, 507, 508				
	2SC945	〃	3	
Tr509	2SA564	〃	1	
Tr511	2SC1317	〃	1	
Tr512	2SD288	〃	1	
Tr513, 514	2SA564	〃	2	
Tr515	2SA719	〃	1	
Tr516	PN150	Photo Transistor	1	
		DIODES		
D1, 2, 3, 4	OA90MLF	Germanium Diode	4	
D5, 7, 9, 11, 13, 15, 17, 19, 21, 301, 302				
	MA150LF	Silicon Diode	11	
D401, 402, 403, 404, 405, 406, 407				
	SM102LF	〃	7	
D408	MA1056LF	Zener Diode	1	
D501	MA150LF	Silicon Diode	1	
D502, 503	MV121LF	〃	2	
D504, 505, 506, 507, 508, 509, 510				
	MA150LF	〃	7	
D511	LN55	LED	1	
D512, 513	SM102LF	Silicon Diode	2	
D515, 516, 517, 519, 520, 521, 522				
	MA150LF	〃	7	
		TRANSFORMERS		
T1, 2	QLA0349	Headphone Transformer	2	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
T201	QLPD25EMX	Power Transformer	1	
T301	QLB0149	Oscillator Transformer	1	
		COILS		
L1, 2, 3, 4, 5, 6	QLQX0331W	Peaking Coil	6	
L301, 302	QLQX0731W	〃	2	
		PILOT LAMPS		
PL1	XAMQ34S200W	Pilot Lamp (Monitor)	1	
PL2	XAMQ21P500N	Pilot Lamp (Power)	1	
PL3, 4	Refer to E4	Meter Lamp	(2)	
PL5, 6, 7, 8	XAMQ22P200N	Pilot Lamp (Record, Tape Selector)	4	
		SWITCHES		
S1	QSW6204A	Push Switch (Monitor)	1	
S2	QSW2212A	Push Switch (Memory Rewind)	1	
S3, 4	QES1361	Micro Switch (Auto Tape Selector)	1	
S5, 6, 7, 8, 9	QSB0234	Leaf Switch (Operation Switches)	5	
S10	QST2218W	Lever Switch (Power ON/OFF)	1	
S11	QSR1407H	Rotary Switch (AC Voltage Selector)	1	
		ELECTRICAL PARTS		
E1	QWY4115Z	Record Head	1	
E2	QWY4114Z	Playback Head	1	
E3	QWY5101Z	Erase Head	1	
E4	QSL1082RNM	Level Meter	2	
E5	QFC1204M	Power Cord	1	
E6	QEJ5004S	Jack Board Assembly	1	
E7	QJA0250H	Microphone Jack	2	
E8	QJA0253H	Headphone Jack	1	
E9	QJP1908JO	3 Pin Plug	4	
E10	QJP1902JO	6 Pin Plug	5	
E11	QJP1903JO	9 Pin Plug	3	
E12	QJP1904JO	12 Pin Plug	1	
E13	QJP1914JN	3 Pin Plug	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
E14	QJS0784JN	3 Pin Socket	5	
E15	QJS0778JN	6 Pin Socket	5	
E16	QJS0779JN	9 Pin Socket	3	
E17	QJS0780JN	12 Pin Socket	1	
E18	QJT1042	Contact	79	
E19	QBJ1425A	AC Power Cord Bushing	1	
E20	QTD1253	Cord Clamper-A	3	
E21	QTD1254	Cord Clamper-B	3	
E22	QTD1250XN	Cord Clamper-C	1	
E23	QTD1121	Cord Spring	1	
E24	QBG1222	Rubber Bushing	1	
E25	QBG1395	Lamp Cover	3	
E26	QBG1112A	Rubber Cushion	2	
E27	QGK2696	Meter Cover	1	
E28	QGL1112R	Lamp Ornament	1	
E29	QTD1164	Power Cord Clamper	2	
E30	QTH1088B	Heat Sink	2	
E31	QTS1402	Shield Plate-A	1	
E32	QTS1394	Shield Plate-B	1	
E33	QMA3030B	Angle	1	
E34	QMA3074A	Cord Angle	1	
E35	QMA3032A	Switch Angle	1	
E36	QMA3035	Jack Board Angle	1	
E37	QMA3033	Meter Angle	1	
E38	QNQ1070	Nut	3	
E39	QNQ1004	〃	1	
E40	QNQ1039	〃	2	
E41	QWQ2002	Washer	1	
E42	QWQ1133	〃	2	
E43	QJT4017	4 Pin Terminal Plate	1	
E44	XBAQ031525	Fuse (315mAT)	3	
E45	XBAQ100027	Fuse (1AT)	2	
E46	QTF1054	Fuse Holder	10	

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Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		CABINET PARTS		
G1	QGC1070	Case Cover	1	
G2	QYP0682	Front Panel Assembly	1	
G2-1	QKH1128	Handle	2	
G2-2	QMA3034	Panel Angle	2	
G2-3	SGXA64	Ornamental Washer	4	
G2-4	QBK7056	Fiber Washer	4	
G2-5	XWG6FZ	Flat Washer	4	
G2-6	XWA6BFZ	Spring Washer	4	
G2-7	XNA6FFZ	Hexagon Nut	4	
G3	QYR0161	Dressing Glass	1	
G4	QYF0269	Cassette Lid Assembly	1	
G5	QXB0455	Push Button	1	
G6	QYT0406A	Control Knob-C	2	
G7	QYT0438	Control Knob-B	2	
G8	QYT0437	Control Knob-A	1	
G9	QGO1330	Button	1	
G10	SBLA4-3	Lever Knob	1	
G11	QKA1065	Rubber Foot	4	
G12	QYB0384	Back Board Assembly	1	
G13	XSB3+8BVS	Screw ⊕3×8	3	
G14	XSB4+8BVS	Screw ⊕4×8	4	
G15	QHQ1256	Screw	2	
G16	XTN3+8BFZ	Tapping Screw ⊕3×8	7	
G17	XSS3+6S	Screw ⊕3×6	6	
G18	XSN4+10S	Screw ⊕4×10	4	
G19	XWE3FZ	Flat Washer 3φ	3	
G20	XWG4FZ	Flat Washer 4φ	4	
G21	QBW2022	Washer	2	
G22	QBJ3299	〃	2	
		ACCESSORIES		
A1	RP050A	Connection Cord-G	1	
A2	QKJ0185	Tape Driver	1	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
A3	QQT2130	Instruction Book	1	
		PACKINGS		
P1	QPN3567	Inside Carton	1	
P2	QPA0263A	Inner Cushion-A	1	
P3	QPA0264	Inner Cushion-B	1	
P4	QPA0265	Inner Cushion-C	1	
P5	QPA0266	Inner Cushion-D	1	
P6	QPA0267A	Inner Cushion-E	1	
P7	XZB48X58XA08	Poly Bag	1	